

Includes 1 disk & gfx bl

# How Sweet it is!

only  
**\$1995.00**



*"What a feeling!"* That's just how you'll feel knowing you've purchased an IBM-compatible Personal Computer with full color graphics capability at a price far, far below anyone else. Not only does the Handwell PC outperform everyone in price, but it comes loaded with standard features that some competitors don't even offer as options.

Due to its eight expansion slots, you'll be able to upgrade your Handwell PC with many add-ons and options today and tomorrow, thus making it obsolescence-proof. When buying the Handwell PC, you will be able to take advantage of the enormous, off-the-shelf software library written for the IBM PC — thus accessing some of the finest user-friendly software available. All-in-all, the Handwell can, by combining quality, performance and unbelievable price, offer you a truly high-performance PC at substantial savings. So, stop and smell the roses along the way and see how sweet it is!

... a new breed of personal computer



**STANDARD FEATURES:** • Full Graphics capabilities (640 dots x 200 lines)  
• 128K Ram (expandable to 256K) • Two RS232 Serial Ports • One parallel printer port  
• Color Display Card • Fully detachable, IBM-compatible Keyboard • 8 Expansion Slots  
• One 5 1/4-inch Floppy Drive (327Kb-formatted) • MS-DOS Operating System  
(MS-DOS 2.0 and CP/M compatible) • 8088 Processor • Spooler (part of system  
memory, can be used as a printer buffer) • Real Time Clock and Calendar



**Handwell** CORP.

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415 962-9265

\*IBM is a registered trademark of International Business Machines  
\*CP/M is a registered trademark of Digital Research, Inc.

\*MS-DOS is a registered trademark of Microsoft, Inc.

**Dealer and OEM inquiries invited  
For further information call**

**800-821-3628**

# FEATURES

The Handwell PC Unit consists of a **MAIN BOARD**, **DISK DRIVER CARD**, **MULTIFUNCTION CARD**, **COLOR DISPLAY CARD**, **POWER SUPPLY WITH FAN**, AND **CASE**.

## MAIN BOARD

- 16-bit Microprocessor 8088 as. CPU running at 4.77 Mhz.
- 8088 is supported by 8259A interrupt controller and 8237 direct memory access controller
- A socket for a 8087 mathematic chip
- 6 (six), 28-pin sockets for read-only memory with one of them occupied by 2764 ROM (BIOS program is built-in)
- 8(eight) expansion slots (universal) on the main board, with three of them occupied by the disk driver card, multifunction card, and display card

## DISK DRIVER CARD

- Connect main board with floppy disc driver
- One card can handle 4 sets of floppy disc drivers

## MULTIFUNCTION CARD

- 2 (two) Channel serial asynchronous communication port (RS-232 Interface)
- 1 (one) Parallel printer port
- Calendar/Clock runs on rechargeable battery
- RAM-128K is built in, can be expanded to 256K

## COLOR DISPLAY CARD

- 6845 Color Graphics controller chip standard  
Can drive either RGB monitor, color monitor, monochrome monitor, or black and white monitor
- **TEXT MODE:**
  - 40 column x 25 row (color/black & white)
  - 80 column x 25 row (color/black & white)
- **GRAPHIC MODE:**
  - 320 dots x 200 lines (color/black & white)
  - 640 dots x 200 lines (black & white)
- **LIGHT PEN INTERFACE AVAILABLE**

## POWER SUPPLY

- 100 W (with fan inside)
- Overload protection
- Input: 90V-130V/180-260V; 60Hz/50 Hz

## KEYBOARD

- Fully detachable
- Function-compatible with IBM PC Keyboard
- 18-foot extension cord provided
- Transmit: serial input
- **95 KEYS:**
  - Function key (user-defined) . . . 10 Keys
  - Numerical key . . . . . 15 Keys
  - Alphanumeric key . . . . . 57 Keys
  - Cursor control key . . . . . 8 Keys
  - Other keys . . . . . 5 Keys

## DISK DRIVER

- Double sided/Double density Disk Drives (2)
- **DISK CAPACITY:** Each Drive  
Unformatted; Media-500K Bytes  
Track-6520 Bytes  
Formatted (16 sector, IBM format);  
Media-327K Bytes  
Track-4096 Bytes
- **SOFT-SECTORED**
- **DIRECT DRIVE SPINDLE ACTUATOR**
- **ROTATIONAL SPEED:** 300 rpm
- **DATA DENSITY:** 5787 bpi
- **TRACK DENSITY:** 48 TPI
- **80 TRACKS**
- **TRANSFER RATE:** 250K bit/sec
- **ACCESS TIME:** Track-to-track= 6 msec;  
Settling= 15 msec max.
- **MOTOR START-UP TIME:** 1 (one) sec max.
- **ENCODE METHOD:** MFM

## HARD DISK – OPTIONAL

- 10 MB



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